(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 12 May 2005 (12.05.2005)

PCT

(10) International Publication Number WO 2005/041932 A2

(51) International Patent Classification7:

A61K 9/127

(74) Agent: REINHOLD COHN AND PARTNERS; P.O.Box 4060, 61040 Tel Aviv (IL).

(81) Designated States (unless otherwise indicated, for every

kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,

GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,

MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,

PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,

(21) International Application Number:

PCT/IL2004/001005

(22) International Filing Date:

3 November 2004 (03.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/516,316

3 November 2003 (03.11.2003) US

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM [IL/IL]; Hi Tech Park, Edmond Safra Campus, Givat Ram, 91390 Jerusalem (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BARENHOLZ, Yechezkel [IL/IL]; 18 Nave Shaanan Street, 93707 Jerusalem (IL). RUBINSTEIN, Abraham [IL/IL]; 25 HaMaavak Street, 97877 Jerusalem (IL). JUBEH, Tareq [IL/IL]; Slahiddin Street, P.O.Box 51775, 91517 Jerusalem (IL).

Published:

ZW.

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

041932 A2

(54) Title: METHODS FOR SELECTING A MEDICAMENT FOR A MEDICAL PROCEDURE AND A KIT MAKING USE OF SAME

(57) Abstract: The present invention is based on the use of electrical surface charge as a docking tool to bring charged lipid assemblies in the vicinity of a diseased, e.g. inflamed epithelium of the mucosa, or alternatively, to a normal epithelium, for executing a desired medical procedure. Thus, the present invention provides a method for selecting a medicament for a medical procedure has now been designed. The medical procedure is selected from treatment, for the healing of a disease or disorder of a mucosa, prophylaxis of a disease or disorder or a mucosa, or a combination of same. The method steps are based on the observation that there are differences in the attachment properties of charged lipid assemblies, such as liposomes, when examined in healthy or inflamed mucosal tissues. The invention also provides a kit making use of the method of the invention. Yet, the invention concerns a method and a medicament for the treatment or prevention of a disease or disorder of the gastrointestinal mucosa, as well as the use of charged lipid assemblies for obtaining said medicament, based on the principles of the differential adhesion of positively vs. negatively charged lipid assemblies to healthy and diseased mucosa, respectively.